

# Priya Singh

Machine Learning Engineer (Natural Language Processing)

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## Summary

A dedicated Machine Learning Engineer with 5 years of experience specializing in Natural Language Processing. Expertise in building and deploying end-to-end NLP models, including text classification, named entity recognition, and question-answering systems using Transformer architectures. Proficient in PyTorch, TensorFlow, and deploying models at scale with Docker and cloud services.

## Technical Skills

- **Programming Languages:** Python, SQL
- **ML/NLP Libraries:** PyTorch, TensorFlow, Hugging Face Transformers, spaCy, NLTK, Scikit-learn
- **MLOps Tools:** MLflow, Docker, FastAPI, Kubernetes
- **Vector Databases:** Milvus, FAISS
- **Cloud:** AWS (S3, SageMaker), Google Cloud AI Platform

## Professional Experience

### Machine Learning Engineer | AI Core Labs | Pune, India (Apr 2021 - Present)

- Developed and deployed a BERT-based question-answering system for a customer support chatbot, reducing human agent escalations by 40%.
- Built a named entity recognition (NER) model to extract key information from legal documents, achieving an F1-score of 92%.
- Engineered a semantic search engine using SBERT and Milvus, improving search result relevance by 60% over the previous keyword-based system.
- Containerized ML models with Docker and deployed them as microservices using FastAPI on a Kubernetes cluster.

### Data Scientist | Insight Analytics | Bangalore, India (Jul 2019 - Mar 2021)

- Created a text classification model to automatically categorize customer feedback with 95% accuracy.
- Performed exploratory data analysis and feature engineering on large text datasets.

## Projects

## **Multi-Lingual Text Summarizer**

- Built a text summarization model using the T5 Transformer, fine-tuned on a custom dataset to support both English and Hindi.

## **Education**

**Master of Technology in Artificial Intelligence** *Indian Institute of Science (IISc)* |  
Bangalore, India (2017 - 2019)